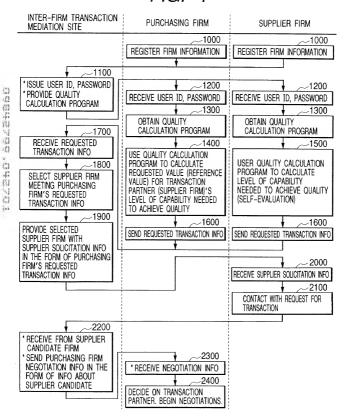


FIG. 4



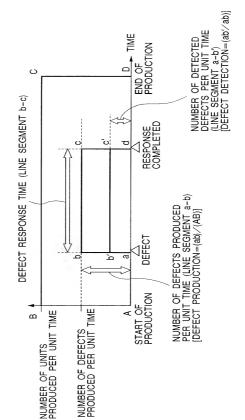
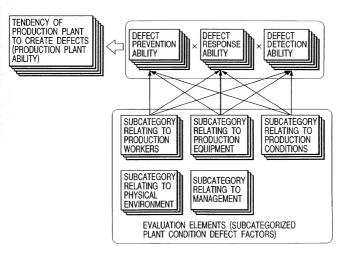


FIG. 6



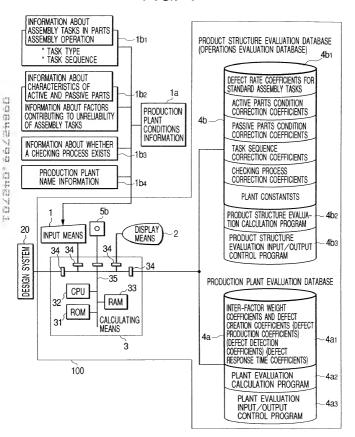
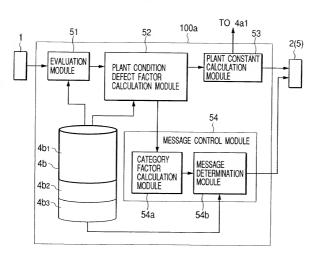


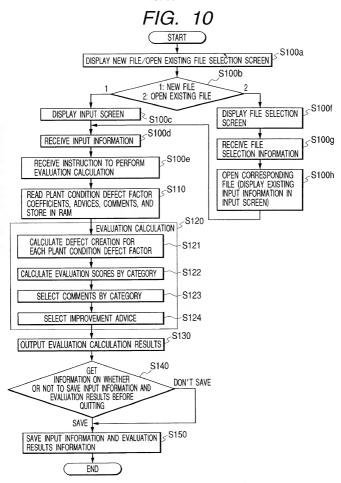
FIG. 8 ANT BROWN

		_				-		_		
ATABASE	29	COMMENTS		LEVEL 3	LOW ATTENDANCE. PROCESS ORGANIZATION UNSTABLE. QUALITY CONSISTENCY		NOT ENOUGH EQUIPMENT SUPERVISORS. MAJOR EQUIPMENT RELMBLITY ISSUES.		LOW LIGHTING. MUST RE- EVALUATE ALL LIGHTING.	
LUATION D		MOS		LEVEL 2	OW TTENDANCE. ROCESS RGANI- ATTON EEDS TTENTION		NOT ENOUGH EQUIPMENT SUPERVISORS. POSSIBLE EQUIPMENT RELABILITY ISSUES.		LOW LIGHTING. CERTAIN AREAS NEED LOCAL LIGHTING.	
4b1: Production Plant Evaluation database			13	LONG-TERM PROPOSAL	CLARIFY INDVID. 8 A GROUP GOALS. P ASSIGN INDVID. O 8 GROUP RESPONSI- N BILITES.		LEMENT JIPMENT BRATION JCATION J TRAINING		NEED TO RE- EXAMINE OVER- L ALL LIGHTING C (SYSTEM, A POSITIONS, L NUMBERS) L	
RODUCTION	99	RESPONSE ADVICE	LEVEL	SHORT-TERM PROPOSAL	SET UP CHECKING PROCESSES FOR KEY PROCESSES		ASSIGN SUPER- VISORS FOR ALL EQUIP. (PRICHITY TO KEY EQUIP.)		INSTALL LOCAL LIGHTING FOR CERTAIN WORK AREAS	
4b1: Pf	9	RESPON	LEVEL 2	LONG-TERM PROPOSAL	EDUCATION FOR A VERSATILE WORKFORCE, CLARIFY GOALS & RESPONSI- BILITIES.		MPLEMBYT ASSON SUPER- HIS S EQUIPMENT NISORS FOR EQU OPERATION ALL EQUIP. OP EDUCATION (FRIGHTY TO EDU AND TRAINING (FFI EQUIP.) AM		NSTALL NEED TO RE- LOCAL EXAMINE LIGHTING OVERALL FOR CERTAIN LIGHTING WORK AREAS, [FLUORESCENT]	
			E	M DETECTION TIME SHORT-TERM OCEFFICIENT PROPOSAL			ASSIGN SUPERVISORS I FOR ALL ECUIPMENT		NSTALL LOCAL LIGHTING FOR CERTAIN WORK AREAS.	
α	650	EFFICIENT)	DEFECT	NESPONSE TIME COEFFICIENT	Ø		-		0	
<u>ج</u> بې	929	DEFECT CREATION COEFFICIENT	DEFECT	DETECTION COEFFICIENT	-	R	2	77	0	
_	65a	_	PEECT	MODUCING OFFICIE	ო		7		2	
	4		NEGE FEGE		01		-		-	
			LEVEL 3	(LOW)	S<%06		ASSIGNED (LESS THAN 90% OF ALL EQUIPMENT)		1000lx> 600lx>L L≥600lx	
	88		LEVEL 2	(MEDIUM)	97%> S≥90%		ASSIGNED (90%, OR MORE OF ALL EQUIPMENT)		1000lx> L≥600lx	
			LEVEL 1	(HIGH)	%Z≅87%		FULLY ASSIGNED		L≥ 1000lx	
	65	DI ANT	CONDITION	DEFECT FACTOR	T ATTENDANCE S		EQUIPMENT SUPERVISORS		LIGHTING (L)	
	<u>19</u>	-	ITEM	NO.	-		ω		55	
	8	-0	ATE	GORY	-	ľ	27		4	

FIG. 9







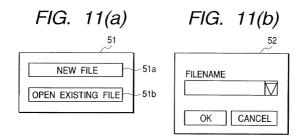
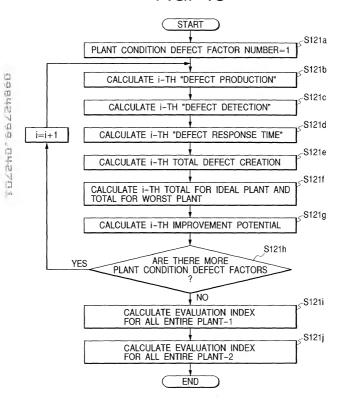


FIG. 12

PLANT EVALUATION: PLANT CONDITIONS INPUT 71 NAME OF PLANT PRODUCTION PLANT X 71 72 PLANT CONDITIONS 61 75(62) 76 LESS THAY AT LEAST 60 TO CATEGORY NO. QUESTION 75a ANSWER 76a 76b 76c 1. WORKERS 1 ATTENDANCE NOTE 97% OR LESS THAN 97% OLESS THAY 97% OR HIGHER 90% OR HIGHER 90% ASSIGNED 99% OR HIGHER 90% ASSIGNED 99% OR HIGHER 90% ASSIGNED 99% ASSIGNED	
72 PLANT 61 75(62) 76 LESS THAN AT LEAST 60 POWN NO. QUESTION 75a ANSWER 76a 76b 76c (ATEGORY NO. QUESTION 75a ANSWER 76a 76c (ATEGORY NO. QUESTION 75a ANSWER 76a 76b 76c (ATEGORY NO. QUESTION 75a ANSWER 76a 76b 76c (ATEGORY NO. QUESTION 75a ANSWER 76a 76b 76c (ATEGORY NO. QUESTION 75a ANSWER 76a ANSWER	×
60 EVALUATION NO. QUESTION 75a ANSWER 76a 76b 76c 1. WORKERS 1 ATTENDANCE WORE NICH HIGHER 90% OR HIGHER 90% 2. EQUIP— 8 EQUIPMENT WORE SIPERVISORS INFO 98% OR HIGHER 90% ASSIGNED A	
1. WORKERS 1 ATTENDANCE WORE 97% OR LESS THAN 97%, LESS THAN 97% OR HIGHER 90% ASSIGNED ASS	97%, 0%
2 EQUIP— 8 EQUIPMENT WORE ASSIGNED ASSIGNED OF ASSIGNED ASSIGNED OF ASSIGNED ASSIGNE	
2. EQUIP- MENT B EQUIPMENT WORE ASSIGNED 90% OR HIGHER LESS TH. ASSIGNED ASSIGNED 90% ASS	N
2. EQUIPMENT WORD SUPERVISORS WIND SIGNED 90% OR HIGHER LESS TH. ASSIGNED 90% ASS	-
muiti	N GNED
7 7	
4. PHYSICAL 13 LIGHTING WORE 1000 IX OR HIGHER 600 IX OR HIGHER 600 IX OR HIGHER 600 IX	N
MLN1 Z Z	\exists

FIG. 13



		· · ·			1	3.	/ 3	3					
		650	FFICIENTS	DEFECT RESPONSE TIME COEFFICIENTS	2			-		0			
	65	9 9 9	DEFECT CREATION COEFFICIENTS	DEFECT DETECTION COEFFICIENTS	-		1	2		2	V		
		65a	DEFECT OF	DEFECT CREATION COEFFICIENTS	ო		1	23	۲	2	1		
		7 9~	INTER-	FACTOR WEIGHT COEFFICIENTS	2			4		-			
	83 83	93p	WORST	PLANT DEFECT CREATION	36			15		12			
	i	93a 93a	IDEAL	PLANT DEFECT CREATION	12			5		4			
ci		92d 92e	띥	improvement Potential	12			0		8			
FIG. 14			ESULTS	DEFECT CREATION	24			5		12		- 98c	98b 98a
	85	920	CULATION R	DEFECT RESPONSE TIME	8			-		0		25	
	0,	9Ż6	DEFECT CREATION CALCULATION RESULTS/FOR EVALUATED PLANT	DEFECT DETECTION	4			2		9		42	50ppm
		92a	DEFECT C EVALUATE	DEFECT	12			2		ဖ		22	
		<u>9</u> _	CNICOCO	PLANT	5			-		ო			PLANT DEFECT RATE
		<u>6</u> ~		9 8 8	1			80		13		TOTAL	当
		g-	C	ATEGORY	-			01		4		(1 (1
												-86	-66

				80	
	PLAN	ΓE	VALUATION E	EVALUATION RESULTS OUTPUT	\times
71-	NAM EVAI	E C	PROTED PLANT	ODUCTION PLANT X	
99~	<u></u> (1) ∣	PLAN	NT DEFECT RATE	50 (ppm)	
84~	~ (2) I	PLAN	IT ANALYSIS RESU	SULTS 1 PLANT IMPROVEMENT ADVICE	-
	EVA	LUA	TION CATEGORY	(SCORE) (COMMENT) 87	١
85	_	1	WORKERS 86 -	70 * INADEQUATE EDUCATION AND TRAINING	
		2	EQUIPMENT	50 * MAJOR EQUIPMENT RELIABILITY ISSUES	
					ᆜ
				72	1
		<u> </u>	MANAGEMENT	70 CREATE OPERATION STANDARDS. PRODE BAS IN SOME PROCESSES ONLY.	1
88~		_	-	70 COREATE OPERATION STANDARDS FULTS 2 (PLANT IMPROVEMENT ADVICE)	
88~		_	-		
88~	(3) 1	_	IT ANALYSIS RESU	SULTS 2 (PLANT IMPROVEMENT ADVICE)	
88~	(3) 1	PLAN	IT ANALYSIS RESU 88a IMPROVEMENT	SULTS 2 (PLANT IMPROVEMENT ADVICE) 88b 88c	
88~	(3) 1	PLAN	IT ANALYSIS RESU 88a IMPROVEMENT AREA OPERATIONS	SHORT-TERM MEASURES LONG-TERM MEASURES CREATE OPERATION STANDARDS MAINTAIN OPERATION	

FIG. 16

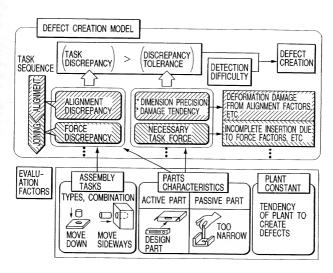
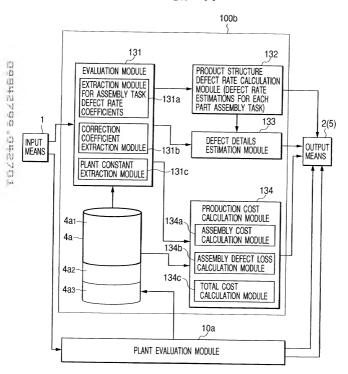


FIG. 17



The state of the s

FIG. 18

SAMPLE INPUT SCREEN (PRODUCT SPECIFICATION INPUT SCREEN) FROM QUALITY CALCULATION PROGRAM (PRODUCT STRUCTURE EVALUATION CALCULATION PROGRAM)

ASSEMBLY SYSTEM ENTER PRODUCT ATTRIBU	TES
PRODUCT NAME [VCR: A-100 PRODUCT P53001	
NUMBER FIGURE NUMBER	
PRODUCT TYPE ASSEMBLY	
QUANTITY (g) 4500	PRODUCT DIMENSION (mm)
UNIT PRICE	(W) MAX 450
	(D) 300 (H) 70
	(H) 70
ASSEMBLY PLANT REFERENCE TIME TOI ASSEMBLY PLANT DIVISIONS]
ASSEMBLY TIME	(FOR CALCULATING REFERENCE DEFECT RATES)
ASSEMBLY PLANT DEFECT RATE	(ppm)
DEFECT WARNING LINE	(ppm)
PLANT LOCATION	
PRODUCTION UNITS (qty)	(FOR CALCULATING (REFERENCE DEFECT RATES)
PRODUCTION START DATE	
PRODUCTION END DATE	
	DONE

The state of the case of the state of the st

FIG. 19

SAMPLE INPUT SCREEN (PART SPECIFICATION INPUT SCREEN) FROM QUALITY CALCULATION PROGRAM (PRODUCT STRUCTURE EVALUATION CALCULATION PROGRAM)

ASSEMBLY SYSTEM ENTER PART ATTRIBUTES	
PART NAME FRAME ASSEMBLY 1	□ NOT EVALUATED (AEM)
PARTT NUMBER	□ NOT EVALUATED (AREM)
FIG. NUMBER	□ TIGHTENING FLAG
NUMBER OF IDENTICAL PARTS 1	☐ THREADED FLAG
DADT TVDC	(USE FOR CLASSIFICATION)
MAX LENGTH OF PART (mm) 450,000 QTY (g)	
NOTES	
☐ USER-DEFINED FLAG 1 ☐ USER-SET FLAG 2	□ USER-SET FLAG 3
ASSEMBLY LEVEL PARENT PART NAME NEW PRODUCT	
	IF DIFFERENT) JCT ATTRIBUTE
ASSEMBLY PLANT DIVISIONS (ENTER ONLY	IF DIFFERENT \
ASSEMBLY TIME FROM PRODU	JCT ATTRIBUTE)
ASSEMBLY PLANT DEFECT (ENTER ONLY RATE (ppm)	IF DIFFERENT) JCT ATTRIBUTE
	ATING REFERENCE DEFECT RATES)
#1 NO-TOUCH SURFACE #2 NO-TOUCH SURFACE (PASSIVE PART)	□ TASKS NOT CONFIRMED
BASIC ELEMENT CORRECTIVE ELEMENT REPEAT REFERENCE	
BASIC ELEMENT CONNECTIVE ELEMENT COUNT TIME RATIO	
NEXT TASK PREV TASK ENTER CORRECTION ADD TASK	DELETE TASK DONE

FIG. 20

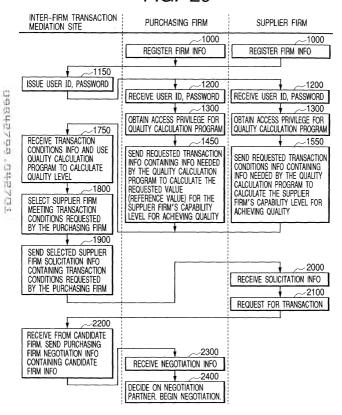
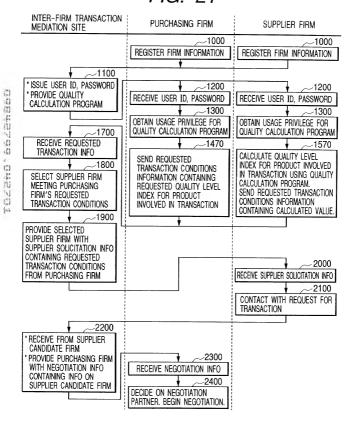
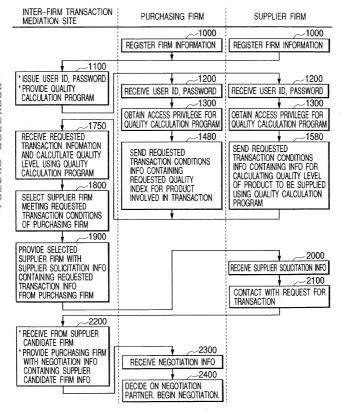
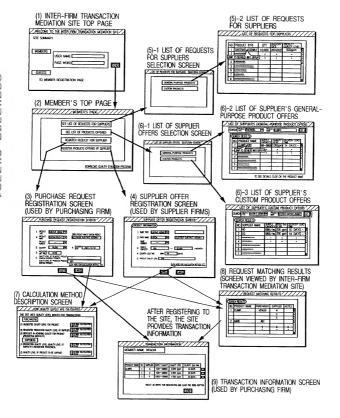


FIG. 21





The state of the s



(1) INTER-FIRM TRANSACTION MEDIATION SITE TOP PAGE

WELCOME TO	THE INTER-FIRM TRANSACTION MEDIATION	ON SITE
SITE SUMMARY		
MEMBERS	USER NAME	SEND
GUESTS TO MEMBE	ER REGISTRATION PAGE	

FIG. 25

(2) INTER-FIRM TRANSACTION MEDIATION SITE MEMBER'S TOP PAGE

MEMBER'S PAGE
SEE LIST OF REQUESTS FOR SUPPLIERS
SEE LIST OF PRODUCTS OFFERED
REGISTER REQUEST FOR SUPPLIER
REGISTER PRODUCTS OFFERED BY SUPPLIER
DOWNLOAD QUALITY EVALUTION PROGRAM

(3) INTER-FIRM TRANSACTION MEDIATION SITE PURCHASE REQUEST REGISTRATION SCREEN (USED BY PURCHASING FIRMS)

1.	PRODUCT SUBSTRATE ASSEMBLY ▼	D DOODLOT MAKE IT GLOTTOM POOCHOT
2.	DIG.	R PRODUCT NAME IF CUSTOM PRODUCT CTRODE SUBSTRATE ASSEMBLY
	PRODUCT	
3.	QUANTITY 10 000 ▼ 4. D	ELIVERY 2001/2/22
5.	REQUESTED 20.00	
6.	QUALITY LEVEL OF DELIVERED PRODUCT (GENERAL-PURPOSE PRODUCT)	
	CUALITY LEVEL OF PRODUCED PRODUCT 500	RE FOR CALCULATION METHOD, ETC.

FIG. 27

(4) INTER-FIRM TRANSACTION MEDIATION SITE SUPPLIER OFFER REGISTRATION SCREEN (USED BY SUPPLIER FIRMS)

RODUCT INFORMATION	
1. PART TYPE SUBSTRATE ASSEMBLY ▼	
2. PART NAME CUSTOM ▼	ELECTRODE SUBSTRATE ASSEMBLY
PART]
3. SUPPLY 500	~ 20,000 /MONTH
4. DELIVERY LEAD TIME MIN 1	4 DAYS
5. PRODUCT QUALITY LEVEL 300	
	CLICK HERE FOR CALCULATION METHOD, ETG
REGISTER	CANCEL

(5)-1 LIST OF REQUESTS FOR SUPPLIERS SELECTION SCREEN

LIST OF F	EQUESTS FOR SUPPLIERS SELECTION SCREEN
	GENERAL-PURPOSE PRODUCTS
	CUSTOM PRODUCTS

FIG. 29

(5)-2 LIST OF REQUESTS FOR SUPPLIERS

NO.	PRODUCT TYPE	QTY	DELIVERY	PRODUCT QUALITY LEVEL	7
1	SUBSTRATE ASSEMBLY	10,000	2001/2/22	500ppm	٧
2	******			•	
JUMP	TO DETAILED INFO DISPLA	Y		:	
4	******				1
5	*********				T
6	******				1
7	*****				1
8	******				1

(6)-1 LIST OF SUPPLIER OFFERS SELECTION SCREEN

///////99).S	F SUPPLIER OFFERS SELECTION SCREEN
	GENERAL-PURPOSE PRODUCTS
	CUSTOM PRODUCTS

FIG. 31

(6)-2 LIST OF SUPPLIER'S GENERAL-PURPOSE PRODUCT OFFERS

	OF SUPPLIER'S GE	1111111111	7777777	PRODUCT C	OFFERS:
SEAHU	PRODUCT FASTNERS	NAME	CLAMPS		GO !
(SEA	RCH RESULTS				
NO	. PRODUCT NAME	SUPPLY	QUALITY	DELIVERY LEAD TIME	ם
	CLAMP_A300	500~20000	3,000ppm	14 DAYS -	
	UMP TO DETAILED INFO DIS	SPLAY	:	•	
4	*******	 		•	
5	*********				Π
6	******				711
7	*********				111
	TO SI	EE DETAILS,	CLICK ON	THE PRODUCT I	NAME

(6)-3 LIST OF SUPPLIER'S CUSTOM PRODUCT OFFERS

	// <u>/</u> j	IST OF SUPPLIEF	R'S CUSTO	OM PROD	UCT OFFER	\$ <i>!//////</i>
S	EARCH	PRODUCT SUBSTRATE ASSEMBL	Y ▼ PRODU NAME	CT ELECTRODE S	UBSTRATE ASSEMBLY	GO I
[SEAR	CH RESULTS>			1.7.1	
	NO.	SUPPLIER NAME	SUPPLY	PRODUCT QUAL- ITY LEVEL	DELIVERY LEAD TIME	์
	1	AD	10000/mo.		10 DAYS -	
	2	EG	10000/mo.	300 ppm	14 DAYS -	
	3	******	:	•	••	
	4	*******	•	•	•	
	5	******				
	6	******				111
	7	******				

FIG. 33

(7) CALCULATION METHOD DESCRIPTION SCREEN

HOW QUALITY LEVELS ARE CAL	CULATED////////
THIS SITE USES QUALITY LEVEL INDICES FOR TRAN	ISACTIONS
PURCHASERS	
(1) REQUESTED QUALITY LEVEL FOR PRODUCT	DESCRIBE CALCULATION METHOD
(2) REQUESTED PRODUCTION QUALITY LEVEL OF SUPPLIER	DESCRIBE CALCULATION METHOD
(3) DIFFICULTY IN ACHIEVING QUALITY FOR PRODUCT (PRODUCTION DIFFICULTY)	DESCRIBE CALCULATION METHOD
SUPPLIERS	
(1) PRODUCTION QUALITY LEVEL (QUALITY LEVEL OF SUPPLIER'S PRODUCTION PROCESSES)	DESCRIBE CALCULATION METHOD
(2) QUALITY LEVEL OF PRODUCT TO BE SUPPLIED	DESCRIBE CALCULATION METHOD

(8) REQUEST MATCHING RESULTS

NO.	PRODUCT NAME	PURCHASER	SUPPLIER	NOTES
1	CLAMP	HITACHI	Α	1
			С	
	The state of the s		K	
2	BAND	ABC		
			•	
		:	<u>:</u>	

FIG. 35

TRANSACTION INFORMATION SCREEN

PRODUCT NAME	NO.	SUPPLIER	SUPPLY CAPACITY	QUALITY LEVEL	DELIVERY LEAD TIME	1
CLAMPS	1	A	500~20000	3,000 ppm	14 DAYS -	E
	2	С	500~20000	6,000 ppm	10 DAYS -	١
	3	K	1000~50000	4,000 ppm	30 DAYS -	ī

FLOW OF OPERATIONS BEFORE TRANSACTION STARTS (WHEN ESTIMATES ARE POSTED BY PURCHASING FIRM)

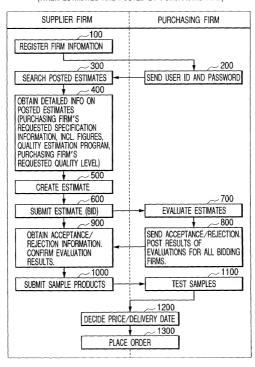
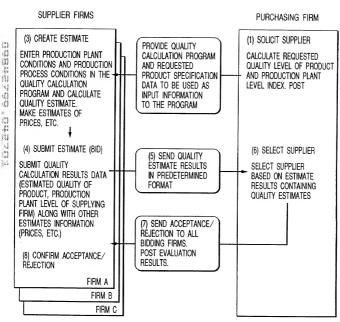
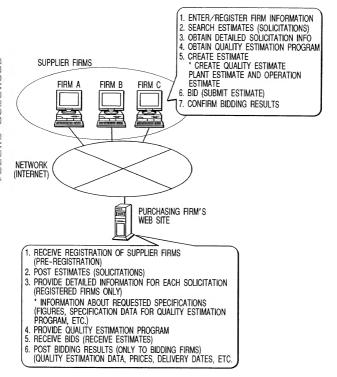
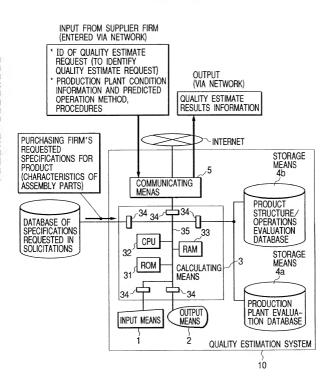


FIG. 37







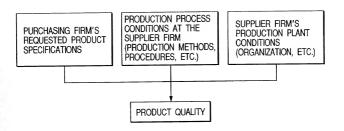


FIG. 41

